

ABSTRACT

It is an object of the present invention to provide a twin synchronization method that can easily realize a high speed and highly accurate operation for a machine having a gantry type structure.

According to the present invention, in a control method for a twin synchronization in which two motors for driving two axes (moving elements 3) mechanically fastened to each other by a fastening part (a fastening jig 6) are synchronously operated, one of the two axes is operated at low speed by a position control and the other axis is allowed to freely run and follow the one axis and a return to the origin is performed. A positional deviation between the one axis and the other axis is measured at an arbitrary pitch. The positional deviation corresponding to a position where the one axis travels is stored in a data base as a function. One position command is directly distributed to the one axis as a main position command and the position command is distributed to the other axis as a position command corrected by using the function stored in the data base to perform an operation.